

ENTERED
see page 6



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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/026,925

DATE: 06/10/2002

TIME: 15:41:51

Input Set : A:\Dyax-004.app

Output Set: N:\CRF3\06102002\J026925.raw

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3 <110> APPLICANT: LADNER, ROBERT C.
5 <120> TITLE OF INVENTION: FOCUSED LIBRARIES OF GENETIC PACKAGES
7 <130> FILE REFERENCE: DYAX/004
9 <140> CURRENT APPLICATION NUMBER: 10/026,925
C--> 10 <141> CURRENT FILING DATE: 2002-05-28
12 <160> NUMBER OF SEQ ID NOS: 99
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 14
18 <212> TYPE: PRT
19 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
23   CDR1 vector
25 <220> FEATURE:
26 <221> NAME/KEY: MOD_RES
27 <222> LOCATION: (8)..(10)
28 <223> OTHER INFORMATION: Any amino acid except Cys
30 <220> FEATURE:
31 <221> NAME/KEY: MOD_RES
32 <222> LOCATION: (14)
33 <223> OTHER INFORMATION: Any amino acid except Cys
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41 <211> LENGTH: 17
42 <212> TYPE: PRT
43 <213> ORGANISM: Artificial Sequence
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51 <222> LOCATION: (1)
52 <223> OTHER INFORMATION: Tyr, Arg, Trp, Val Gly or Ser
54 <220> FEATURE:
55 <221> NAME/KEY: MOD_RES
56 <222> LOCATION: (3)
57 <223> OTHER INFORMATION: Tyr, Arg, Trp, Val, Gly or Ser
59 <220> FEATURE:
60 <221> NAME/KEY: MOD_RES
61 <222> LOCATION: (4)

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Input Set : A:\Dyax-004.app

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62 <223> OTHER INFORMATION: Pro, Ser or Gly
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65 <221> NAME/KEY: MOD_RES
66 <222> LOCATION: (8)
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69 <220> FEATURE:
70 <221> NAME/KEY: MOD_RES
71 <222> LOCATION: (10)
72 <223> OTHER INFORMATION: Any amino acid except Cys
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W--> 75 Xaa Ile Xaa Xaa Ser Gly Gly Xaa Thr Xaa Tyr Ala Asp Ser Val Lys
76      1              5              10              15
78 Gly
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83 <212> TYPE: PRT
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86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
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93 <223> OTHER INFORMATION: Any amino acid except Cys
95 <220> FEATURE:
96 <221> NAME/KEY: MOD_RES
97 <222> LOCATION: (3)
98 <223> OTHER INFORMATION: Asp, Ile, Asn, Ser, Trp or Tyr
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102 <222> LOCATION: (4)..(5)
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107 <222> LOCATION: (7)
108 <223> OTHER INFORMATION: Ser, Gly, Asp or Asn
110 <220> FEATURE:
111 <221> NAME/KEY: MOD_RES
112 <222> LOCATION: (8)..(10)
113 <223> OTHER INFORMATION: Any amino acid except Cys
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W--> 116 Xaa Ile Xaa Xaa Xaa Gly Xaa Xaa Xaa Xaa Tyr Ala Asp Ser Val Lys
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119 Gly
122 <210> SEQ ID NO: 4
123 <211> LENGTH: 16
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:

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128 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
129     CDR2 vector
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132 <221> NAME/KEY: MOD_RES
133 <222> LOCATION: (1)
134 <223> OTHER INFORMATION: Any amino acid except Cys
136 <220> FEATURE:
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138 <222> LOCATION: (3)
139 <223> OTHER INFORMATION: Asp, Ile, Asn, Ser, Trp or Tyr
141 <220> FEATURE:
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143 <222> LOCATION: (4)..(5)
144 <223> OTHER INFORMATION: Any amino acid except Cys
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148 <222> LOCATION: (7)
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151 <220> FEATURE:
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154 <223> OTHER INFORMATION: Any amino acid except Cys
156 <400> SEQUENCE: 4
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      1      5      10      15
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162 <211> LENGTH: 19
163 <212> TYPE: PRT
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
168     CDR2 vector
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173 <223> OTHER INFORMATION: Any amino acid except Cys
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176 <221> NAME/KEY: MOD_RES
177 <222> LOCATION: (3)
178 <223> OTHER INFORMATION: Any amino acid except Cys
180 <220> FEATURE:
181 <221> NAME/KEY: MOD_RES
182 <222> LOCATION: (5)..(7)
183 <223> OTHER INFORMATION: Any amino acid except Cys
185 <220> FEATURE:
186 <221> NAME/KEY: MOD_RES
187 <222> LOCATION: (12)
188 <223> OTHER INFORMATION: Any amino acid except Cys
190 <400> SEQUENCE: 5

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```

W--> 191 Xaa Ile Xaa Ser Xaa Xaa Xaa Gly Gly Tyr Tyr Xaa Tyr Ala Ala Ser
      192   1           5           10           15
      194 Val Lys Gly
      197 <210> SEQ ID NO: 6
      198 <211> LENGTH: 15
      199 <212> TYPE: PRT
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      202 <220> FEATURE:
      203 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
      204 CDR3 vector
      206 <220> FEATURE:
      207 <221> NAME/KEY: MOD_RES
      208 <222> LOCATION: (5)
      209 <223> OTHER INFORMATION: Lys or Arg
      211 <220> FEATURE:
      212 <221> NAME/KEY: MOD_RES
      213 <222> LOCATION: (6)..(9)
      214 <223> OTHER INFORMATION: Any amino acid except Cys
      216 <400> SEQUENCE: 6
W--> 217 Tyr Tyr Cys Ala Xaa Xaa Xaa Xaa Xaa Tyr Phe Asp Tyr Trp Gly
      218   1           5           10           15
      221 <210> SEQ ID NO: 7
      222 <211> LENGTH: 17
      223 <212> TYPE: PRT
      224 <213> ORGANISM: Artificial Sequence
      226 <220> FEATURE:
      227 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
      228 CDR3 vector
      230 <220> FEATURE:
      231 <221> NAME/KEY: MOD_RES
      232 <222> LOCATION: (5)
      233 <223> OTHER INFORMATION: Lys or Arg
      235 <220> FEATURE:
      236 <221> NAME/KEY: MOD_RES
      237 <222> LOCATION: (6)..(11)
      238 <223> OTHER INFORMATION: Any amino acid except Cys
      240 <400> SEQUENCE: 7
W--> 241 Tyr Tyr Cys Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Phe Asp Tyr Trp
      242   1           5           10           15
      244 Gly
      247 <210> SEQ ID NO: 8
      248 <211> LENGTH: 19
      249 <212> TYPE: PRT
      250 <213> ORGANISM: Artificial Sequence
      252 <220> FEATURE:
      253 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
      254 CDR3 vector
      256 <220> FEATURE:
      257 <221> NAME/KEY: MOD_RES

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Input Set : A:\Dyax-004.app

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258 <222> LOCATION: (5)
259 <223> OTHER INFORMATION: Lys or Arg
261 <220> FEATURE:
262 <221> NAME/KEY: MOD_RES
263 <222> LOCATION: (6)..(13)
264 <223> OTHER INFORMATION: Any amino acid except Cys
266 <400> SEQUENCE: 8
W--> 267 Tyr Tyr Cys Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Phe Asp
      268   1           5           10           15
270 Tyr Trp Gly
273 <210> SEQ ID NO: 9
274 <211> LENGTH: 21
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
280   CDR3 vector
282 <220> FEATURE:
283 <221> NAME/KEY: MOD_RES
284 <222> LOCATION: (6)..(8)
285 <223> OTHER INFORMATION: Any amino acid except Cys
287 <220> FEATURE:
288 <221> NAME/KEY: MOD_RES
289 <222> LOCATION: (10)
290 <223> OTHER INFORMATION: Ser or Gly
292 <220> FEATURE:
293 <221> NAME/KEY: MOD_RES
294 <222> LOCATION: (12)
295 <223> OTHER INFORMATION: Tyr or Trp
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298 <221> NAME/KEY: MOD_RES
299 <222> LOCATION: (13)..(15)
300 <223> OTHER INFORMATION: Any amino acid except Cys
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W--> 303 Tyr Tyr Cys Ala Arg Xaa Xaa Xaa Ser Xaa Ser Xaa Xaa Xaa Xaa Tyr
      304   1           5           10           15
306 Phe Asp Tyr Trp Gly
307           20
310 <210> SEQ ID NO: 10
311 <211> LENGTH: 22
312 <212> TYPE: PRT
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316 <223> OTHER INFORMATION: Description of Artificial Sequence: Heavy chain
317   CDR3 vector
319 <220> FEATURE:
320 <221> NAME/KEY: MOD_RES
321 <222> LOCATION: (5)
322 <223> OTHER INFORMATION: Lys or Arg

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/026,925

DATE: 06/10/2002
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Input Set : A:\Dyax-004.app
Output Set: N:\CRF3\06102002\J026925.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 8,9,10,14
Seq#:2; Xaa Pos. 1,3,4,8,10
Seq#:3; Xaa Pos. 1,3,4,5,7,8,9,10
Seq#:4; Xaa Pos. 1,3,4,5,7,8,9
Seq#:5; Xaa Pos. 1,3,5,6,7,12
Seq#:6; Xaa Pos. 5,6,7,8,9
Seq#:7; Xaa Pos. 5,6,7,8,9,10,11
Seq#:8; Xaa Pos. 5,6,7,8,9,10,11,12,13
Seq#:9; Xaa Pos. 6,7,8,10,12,13,14,15
Seq#:10; Xaa Pos. 5,6,7,8,12,13,16
Seq#:11; Xaa Pos. 5,6,7,9,14,15,16,17,18
Seq#:12; Xaa Pos. 6,7,8,11,13,14,15,16,17,18,19
Seq#:13; Xaa Pos. 6,7,8,9,12,13,14,15,18,19,20
Seq#:14; Xaa Pos. 5,7,8,9
Seq#:15; Xaa Pos. 5,7,8,9,10
Seq#:16; Xaa Pos. 3,4,5,6,8
Seq#:17; Xaa Pos. 3,4,5,6,9
Seq#:18; Xaa Pos. 3,6,9,10,11,12
Seq#:19; Xaa Pos. 1,4,5,7,8,9
Seq#:23; N Pos. 99,100,101,105,106,107,111,112,113,156,157,158,162,163,164
Seq#:23; N Pos. 165,166,167,177,178,179,183,184,185
Seq#:23; Xaa Pos. 34,36,38,53,55,56,60,62
Seq#:24; Xaa Pos. 34,36,38,53,55,56,60,62
Seq#:27; N Pos. 21,22,23,27,28,29,33,34,35
Seq#:30; N Pos. 23,24,25,26,27,28,29,39,40,41
Seq#:31; N Pos. 42,43,44,45,46,47,48,49,50,60,61,62
Seq#:32; N Pos. 19,20,21,25,26,27,28,30,40,41,42,46,47,48
Seq#:35; N Pos. 19,20,21,26,27,28,29,30,31,32,33,39,40,41,42,43,44,45,46,47
Seq#:35; N Pos. 48
Seq#:36; N Pos. 19,20,21,26,27,28,29,30,31,32,33,39,40,41,42,43,44,45
Seq#:38; N Pos. 19,20,21,25,26,27,31,32,33,34,35,36,37,38,39,52,53,54
Seq#:44; N Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35
Seq#:45; N Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41
Seq#:46; N Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42
Seq#:46; N Pos. 43,44,45,46,47
Seq#:47; N Pos. 24,25,26,27,28,29,30,31,32,38,45,46,47,48,49,50,51,52,53
Seq#:48; N Pos. 23,24,25,26,27,28,29,30,31,32,42,43,44,45,46,47,54,55,56
Seq#:49; N Pos. 23,24,25,26,27,28,29,33,34,35,48,49,50,51,52,53,54,55,56,57
Seq#:49; N Pos. 58,59,60,61,62
Seq#:50; N Pos. 24,25,26,27,28,29,30,31,32,41,47,50,57,58,59,60,61,62,63,64
Seq#:50; N Pos. 65
Seq#:51; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,44,47,50,51,52,53,60,61
Seq#:51; N Pos. 62,63,64,65,66,67,68
Seq#:54; N Pos. 344,345,346,350,351,352,353,354,355,356,357,358,359,360,361

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Seq#:54; N Pos. 413,414,415,422,423,424,428,429,430,431,432,433,536,537,538
Seq#:54; N Pos. 539,540,541,542,543,544,545,546,547,551,552,553
Seq#:54; Xaa Pos. 47,49,50,51,52,70,73,75,76,111,112,113,114,116
Seq#:55; Xaa Pos. 47,49,50,51,52,70,73,75,76,111,112,113,114,116
Seq#:56; N Pos. 108,109,110,117,118,119,126,127,128,129,130,131,132,133,134
Seq#:56; N Pos. 135,136,137,189,190,191,192,193,194,195,196,197,198,199,200
Seq#:56; N Pos. 306,307,308,309,310,311,312,313,314,315,316,317,318,319,320
Seq#:56; N Pos. 324,325,326,327,328,329,330,331,332,333,334,335
Seq#:56; Xaa Pos. 27,30,33,34,35,36,54,55,56,57,93,94,95,96,97,99,100,101
Seq#:56; Xaa Pos. 102
Seq#:57; Xaa Pos. 27,30,33,34,35,36,54,55,56,57,93,94,95,96,97,99,100,101
Seq#:57; Xaa Pos. 102
Seq#:66; N Pos. 28,29,30,34,35,36,37,38,39,40,41,42
Seq#:67; N Pos. 28,29,30,34,35,36,37,38,39,40,41,42,43,44,45
Seq#:71; N Pos. 25,26,27,34,35,36,40,41,42,43,44,45
Seq#:75; N Pos. 28,29,30,31,32,33,34,35,36,37,38,39,43,44,45
Seq#:76; N Pos. 28,29,30,31,32,33,34,35,36,37,38,39,40,41,42
Seq#:77; N Pos. 28,29,30,31,32,33,34,35,36,37,38,39,46,47,48
Seq#:82; N Pos. 24,25,26,27,28,29,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:82; N Pos. 47,48,49,50
Seq#:83; N Pos. 24,25,26,33,34,35,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:88; N Pos. 20,21,22,23,24,25,26,27,28,29,30,31
Seq#:93; N Pos. 22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,40,41,42,43,44
Seq#:93; N Pos. 45,46,47,48,49,50,51
Seq#:94; N Pos. 22,23,24,31,32,33,34,35,36,40,41,42,43,44,45,46,47,48

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Input Set : A:\Dyax-004.app

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0

L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0

L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0

L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0

L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0

L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0

L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:16

L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0

L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:16

L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

L:464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:16

L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0

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L:614 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0

L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0

L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:95

L:744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:143

L:747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:143

L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:191

L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:32

L:818 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:48

L:881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0

L:930 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0

L:954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0

L:955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:60

L:993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0

L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0

L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0

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L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0

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L:1303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0

L:1332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0

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L:1371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0

L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:60

L:1410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0

L:1411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60

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L:1550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:328

L:1551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:376

L:1554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:376